

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A white balance adjustment circuit comprising:

a first gain adjuster that adjusts a signal level of a second image-capturing signal based on a color temperature of a subject, the second image-capturing signal being provided by an image-capturing element which captures an image of a subject through a spectroscopic element and outputs a first image-capturing signal corresponding to a first color, the second image-capturing signal corresponding to a second color and a third image-capturing signal corresponding to a third color;

a second gain adjuster that adjusts a signal level of the third image-capturing signal based on the color temperature of the subject, the third image-capturing signal being provided by the image-capturing element; and

a white balance adjuster that adjusts a signal ratio among the first image-capturing signal, the second image-capturing signal having been adjusted by the first gain adjuster and the third image-capturing signal having been adjusted by the second gain adjuster to achieve a predetermined ratio.

2. (Currently Amended) A white balance adjustment circuit according to claim 1, further comprising:

a color temperature detector that detects ~~a~~the color temperature of the subject;

and

an instructing device that issues individual instructions for the first gain adjuster and the second gain adjuster to perform adjustment in correspondence to the color temperature detected by the color temperature detector.

3. (Currently Amended) A white balance adjustment circuit according to claim 2, wherein:

when the color temperature detected by the color temperature detector is lower than a predetermined value, the instructing device issues instructions for the first gain adjuster and the second gain adjuster to set respective gains to predetermined initial values and when the color temperature is equal to or higher than the predetermined value, the instructing device issues instructions for the first gain adjuster and the second gain adjuster to set the gains lower than the respective initial predetermined values.

4. (Currently Amended) A white balance adjustment circuit according to claim 2, further comprising:

a third gain adjuster that adjusts a signal level of the first image-capturing signal provided by the image-capturing element; and

a brightness detector that detects a brightness level of the subject, wherein:

when the brightness detected by the brightness detector is equal to or higher than a predetermined brightness value, the instructing device issues an instruction for the third gain adjuster to set a gain adjusted thereby to a predetermined initial value and when the brightness level is lower than the predetermined brightness value, the instruction device issues an instruction for the third gain adjuster to set the gain higher than the predetermined initial value.

5. (Currently Amended) A white balance adjustment circuit according to claim 3, further comprising:

a third gain adjuster that adjusts a signal level of the first image-capturing signal provided by the image-capturing element; and

a brightness detector that detects a brightness level of the subject, wherein:

when the brightness detected by the brightness detector is equal to or higher than a predetermined brightness value, the instructing device issues an instruction for the third gain adjuster to set a gain adjusted thereby to a predetermined initial value and when the brightness level is lower than the predetermined brightness value, the instruction device issues an instruction for the third gain adjuster to set the gain higher than the predetermined initial value.

6. (Original) A white balance adjustment circuit according to claim 1, wherein:

the first color is G color, and one of either the second color or the third color is R color and the other is B color.

7. (Currently Amended) A white balance adjustment circuit comprising:

a first gain adjuster that adjusts a signal level of a first image-capturing signal based on a color temperature of a subject, the first image capturing signal being provided by an image-capturing element which captures an image of a subject through a spectroscopic element and outputs the first image-capturing signal corresponding to a first color, a second image-capturing signal corresponding to a second color and a third image-capturing signal corresponding to a third color;

a second gain adjuster that adjusts a signal level of the second image-capturing signal based on the color temperature of the subject, the second image-capturing signal being provided by the image-capturing element;

a third gain adjuster that adjusts a signal level of the third image-capturing signal based on the color temperature of the subject, the third image-capturing signal being provided by the image-capturing element;

a signal level detector that individually detects the signal level of the first image-capturing signal having been adjusted by the first gain adjuster, the signal level of the second image-capturing signal having been adjusted by the second gain adjuster and the signal level of the third image-capturing signal having been adjusted by the third gain adjuster; and

a white balance controller that individually controls the first gain adjuster, the second gain adjuster and the third gain adjuster so as to achieve a predetermined ratio among the individual image-capturing signal levels detected by the signal level detector.

8. (Currently Amended) A white balance adjustment circuit according to claim 7, further comprising:

a color temperature detector that detects ~~a~~the color temperature of the subject; and

an instructing device that issues instructions for the second gain adjuster and the third gain adjuster to perform adjustment in correspondence to the color temperature detected by the color temperature detector.

9. (Currently Amended) A white balance adjustment circuit according to claim 8, wherein:

when the color temperature detected by the color temperature detector is lower than a predetermined value, the instructing device issues instructions for the second gain adjuster and the third gain adjuster to set respective gains to predetermined initial values and

when the color temperature is equal to or higher than the predetermined value, the instructing device issues instructions for the second gain adjuster and the third gain adjuster to set the gains lower than the respective predetermined initial values.

10. (Currently Amended) A white balance adjustment circuit according to claim 8, further comprising:

a brightness detector that detects a brightness level of the subject, wherein:

when the brightness detected by the brightness detector is equal to or higher than a predetermined brightness value, the instructing device issues an instruction for the first gain adjuster to set a gain adjusted thereby to a predetermined initial value and when the detected brightness level is lower than the predetermined brightness value, the instruction device issues an instruction for the first gain adjuster to set the gain higher than the predetermined initial value.

11. (Currently Amended) A white balance adjustment circuit according to claim 9, further comprising:

a brightness detector that detects a brightness level of the subject, wherein:

when the brightness detected by the brightness detector is equal to or higher than a predetermined brightness value, the instructing device issues an instruction for the first gain adjuster to set a gain adjusted thereby to a predetermined initial value and when the detected brightness level is lower than the predetermined brightness value, the instruction device issues an instruction for the first gain adjuster to set the gain higher than the predetermined initial value.

12. (Original) A white balance adjustment circuit according to claim 7, wherein:

the first color is G color, and one of either the second color or the third color is R color and the other is B color.

13. (Original) An image-capturing apparatus having the white balance adjustment circuit according to claim 1.

14. (Original) An image-capturing apparatus having the white balance adjustment circuit according to claim 7.

15. (New) A white balance adjustment circuit according to claim 1, wherein:
the white balance adjuster adjusts digital data of the second image-capturing signal having been adjusted by the first gain adjuster and digital data of the third image-capturing signal having been adjusted by the second gain adjuster.

16. (New) A white balance adjustment circuit according to claim 7, wherein:
the white balance controller controls digital data of the first image-capturing signal having been adjusted by the first gain adjuster, digital data of the second image-capturing signal having been adjusted by the second gain adjuster, and digital data of the third image-capturing signal having been adjusted by the third gain adjuster.

17. (New) A white balance adjustment circuit according to claim 13, wherein:
the white balance adjuster adjusts digital data of the second image-capturing signal having been adjusted by the first gain adjuster and digital data of the third image-capturing signal having been adjusted by the second gain adjuster.

18. (New) A white balance adjustment circuit according to claim 14, wherein:
- the white balance controller controls digital data of the first image-capturing signal having been adjusted by the first gain adjuster, digital data of the second image-capturing signal having been adjusted by the second gain adjuster, and digital data of the third image-capturing signal having been adjusted by the third gain adjuster.